

**APPARATUS FOR USE IN MEASURING FLUID LEVELS**

**Abstract of the Invention**

A device for use in measuring stratified fluid levels in a container is disclosed. The device has a microwave transceiver sensor head attached to a waveguide sensor rod which is enclosed by a gauge tube. The rod end tubes are comprised of sections which allow them to be assembled or disassembled in a close quarters environment. The tube has a plurality of circumferentially and longitudinally spaced slots providing for the equalization of stratified fluids within the tube. The rod is generally radially centered in the tube by the use of a plurality of spacers which reside in notches in the rod. The spacers are adapted to not penetrate the slots in the tube. The rod can be removed from the tube for cleaning without draining the tank. Additionally, once the rod is removed from the tube, a cleaner brush or scraper can be used to remove any barnacles or other debris from within the tube and the longitudinal slots in the tube.